

In the Claims

1. (Currently Amended) A method of remediating media contaminated with halogenated hydrocarbons comprising:

forming Fe-S based inorganic compounds mainly comprising sulfur on at least portions of surfaces of iron powder containing about 0.1 to about 2% by mass of sulfur and about 0.1% by mass or less of manganese as the composition, based on the mass of the iron powder;

contacting the halogenated hydrocarbons contained in the media with the iron powder; and causing reduction of halogenated hydrocarbons.

2. (Cancelled)

3. (Currently Amended) The method according to Claim 1, wherein precipitates of sulfur are formed on at least portions of the surfaces of the iron powder by precipitation of sulfur in the iron powder.

4. (Cancelled)

5. (Original) The method according to Claim 1, wherein said media is selected from the group consisting of soil, water and gases.

6. (Original) The method according to Claim 1, wherein about 0.1 to about 10% by mass of the iron powder is contacted with the media containing the halogenated hydrocarbons, based on the mass of the media.

7. (Previously Presented) The method according to claim 1, wherein the halogenated hydrocarbons are selected from the group consisting of trichloroethylene, tetrachloroethylene, 1,1,1-trichloroethane, 1,1,2-trichloroethane, 1,1-dichloroethylene, cis-1,2-dichloroethylene, trans-1,2-dichloroethylene, 1,1-dichloroethane, dichloromethane, carbon tetrachloride, methyl chloride, chloroform, methyl chloroform, 1,1,2,2-tetrachloroethane, 1,2-dichloropropane, 1,3-dichloropropane,

methyl bromide, 2-bromopropane, 1,3-dibromopropane, 1,4-dibromopropane, allyl bromide, PCB and dioxin.

8. (Original) The method according to Claim 1, wherein contacting the iron powder with the media is achieved by spraying on, mixing with or injecting into the media.

9. (Original) The method according to Claim 1, wherein surfaces of the iron powder are wet with at least one or more layers of water molecule layers.

10 – 12 (Cancelled)